

Fig.1

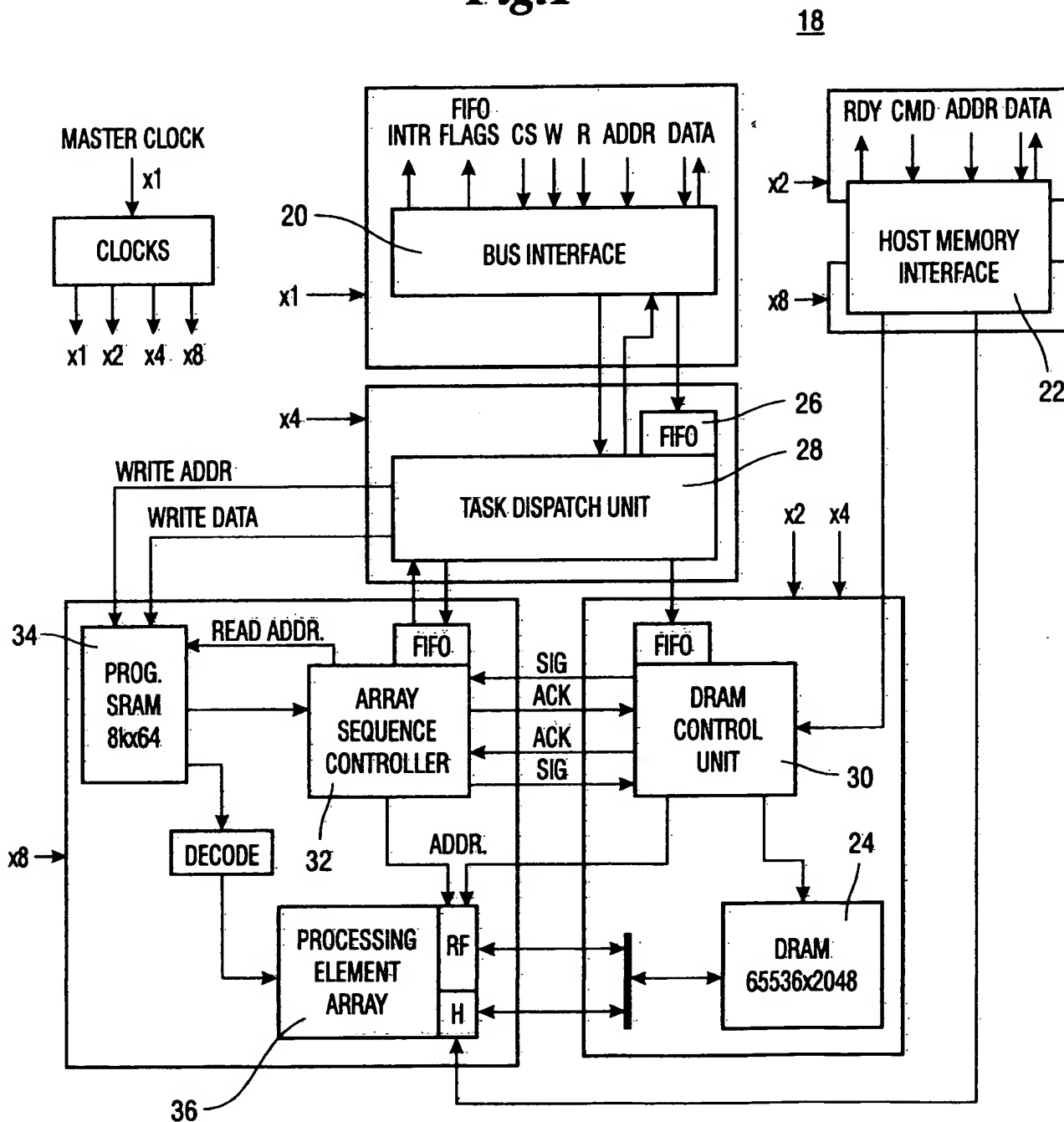


Fig.2

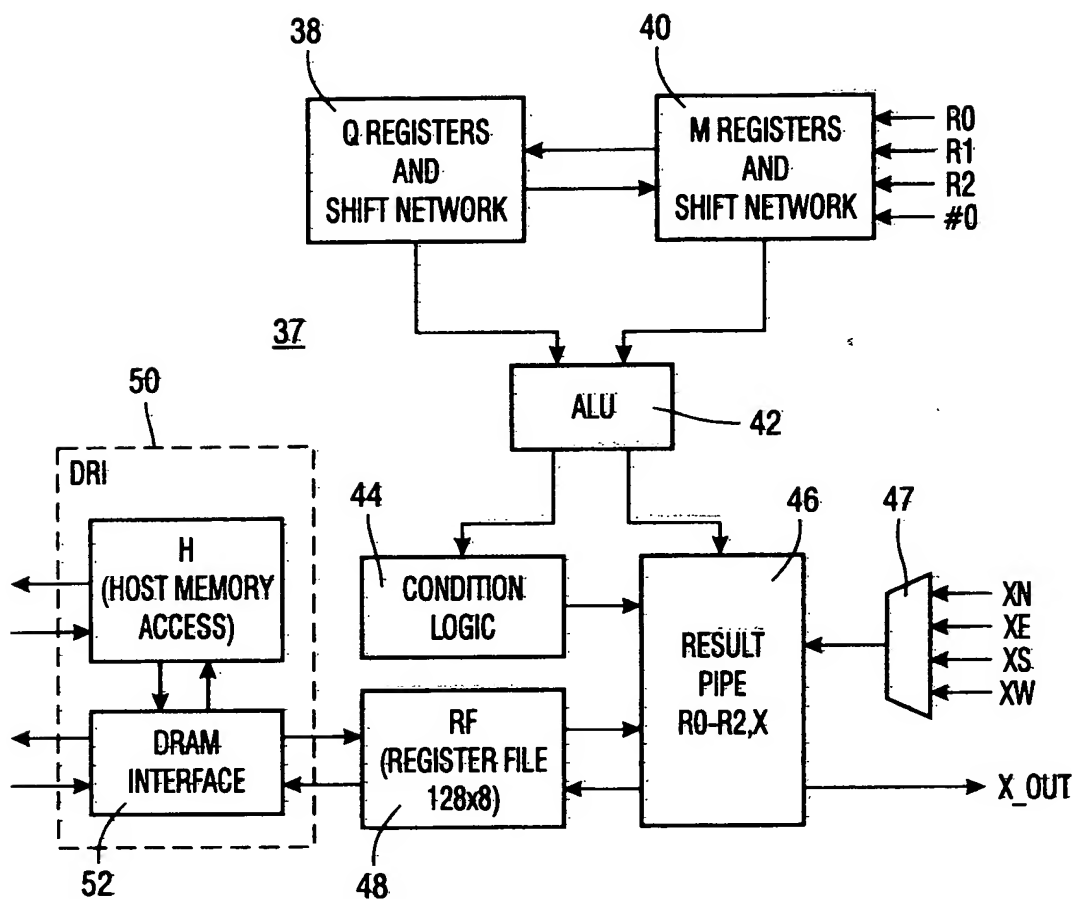


Fig.3

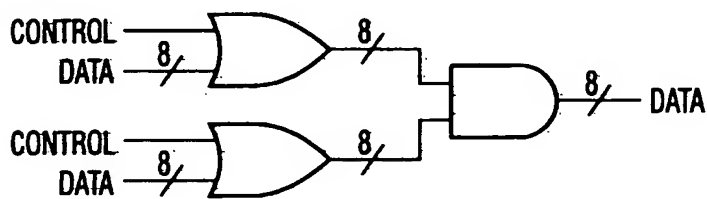


Fig.4

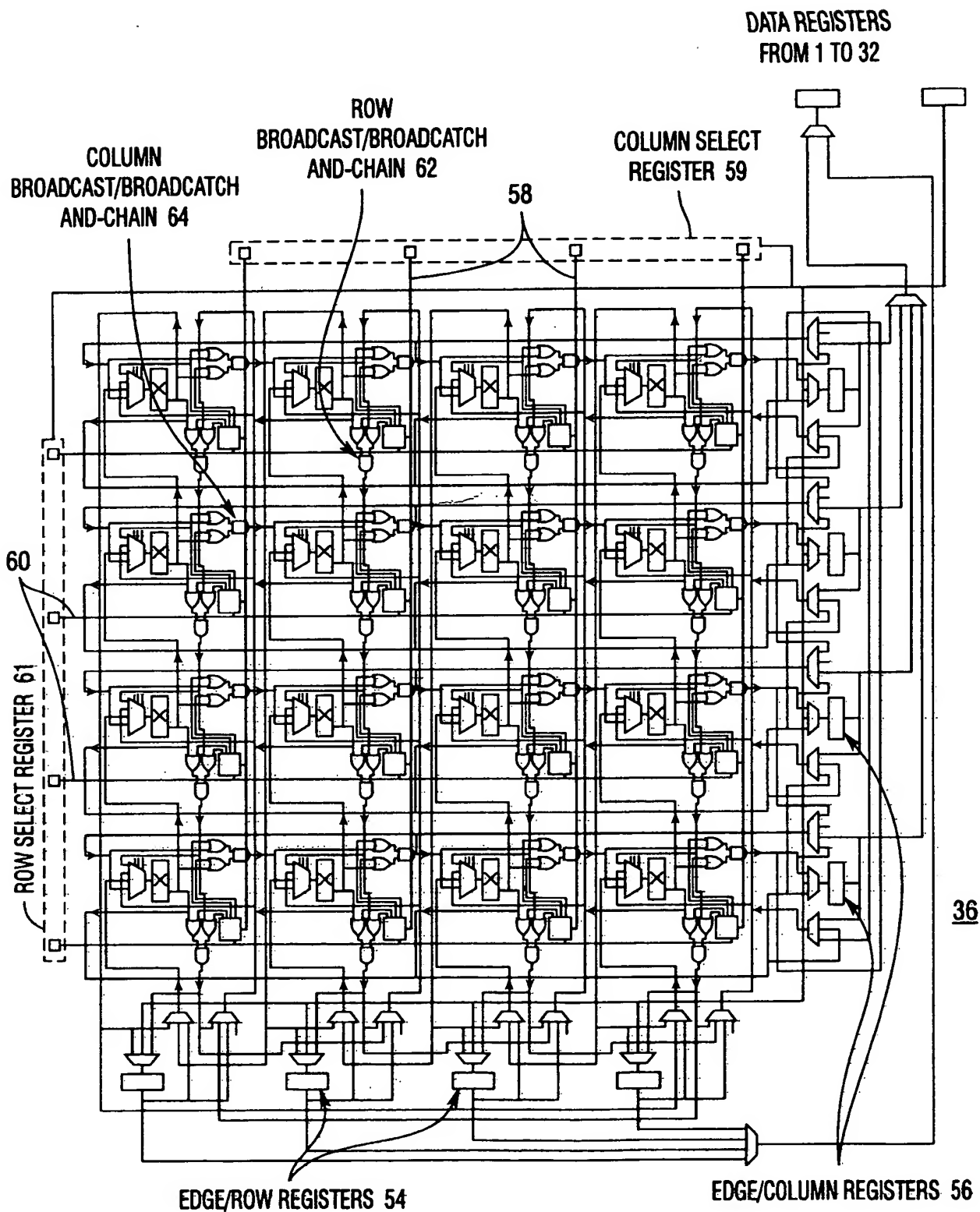
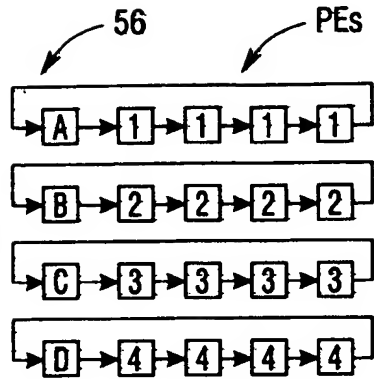


Fig.5

Replacement Sheet

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Fig. 6A



Edge Shift



Fig. 6B

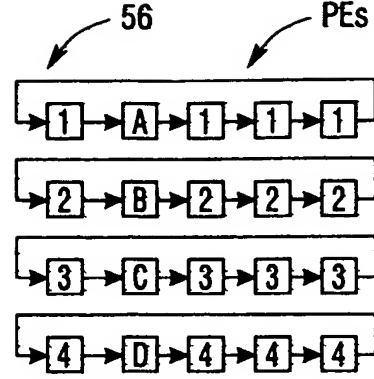
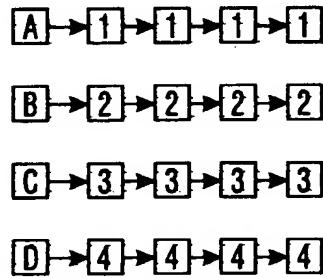


Fig. 7A



Planar Shift



Fig. 7B

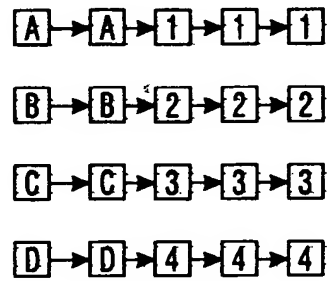
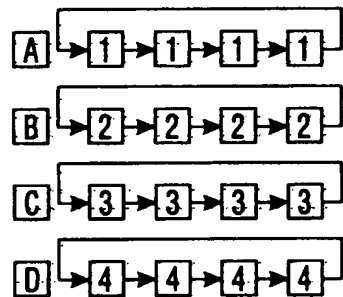


Fig. 8A



Wrap Shift



Fig. 8B

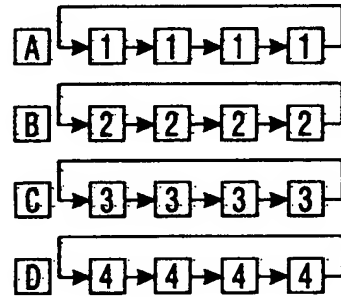
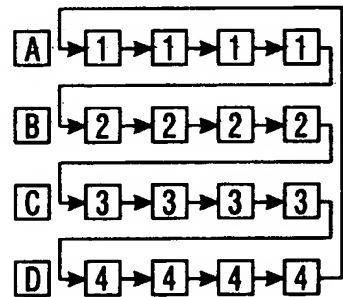


Fig. 9A



Vector Shift
 $x \leq xw, \text{vector}$



Fig. 9B

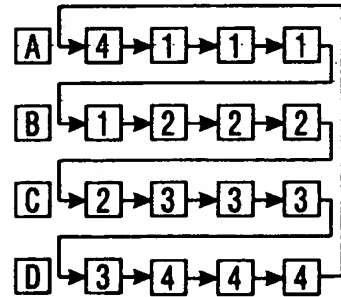
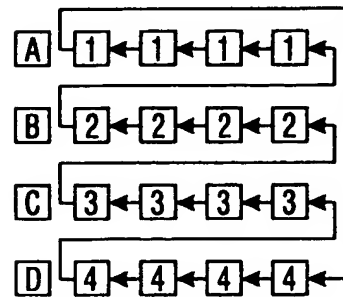


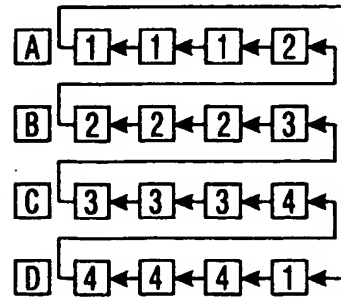
Fig. 10A



Vector Shift
 $x \leq xe, \text{vector}$



Fig. 10B



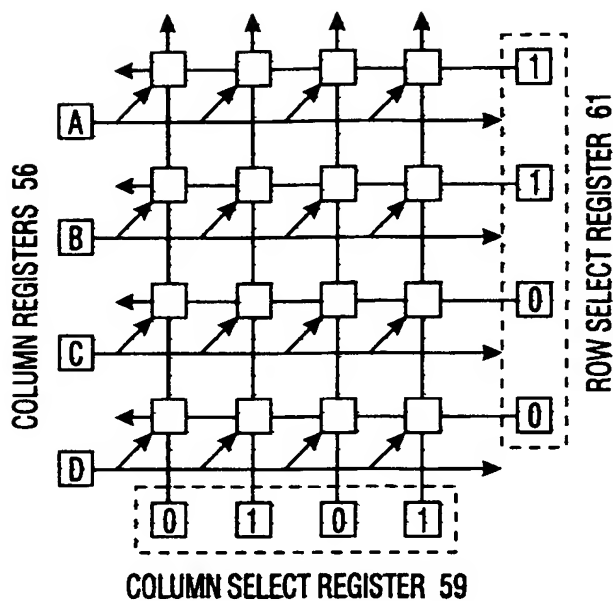


Fig.11A

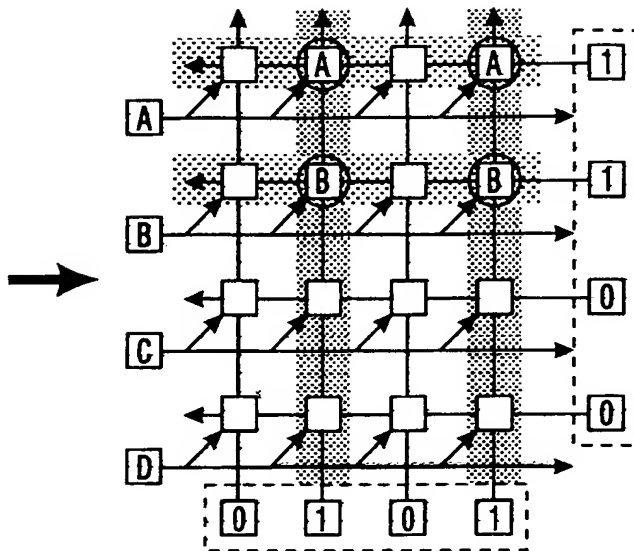


Fig.11B

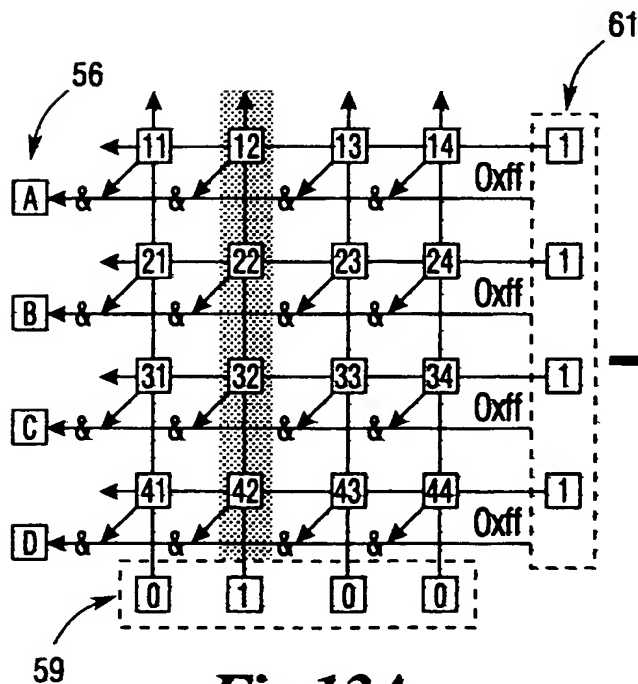


Fig.12A

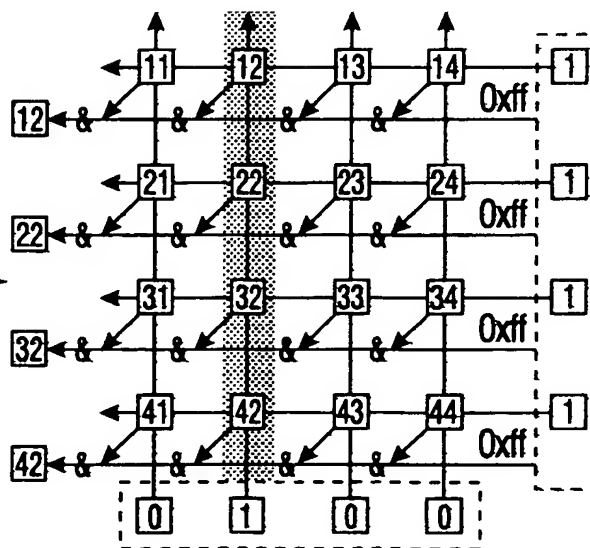
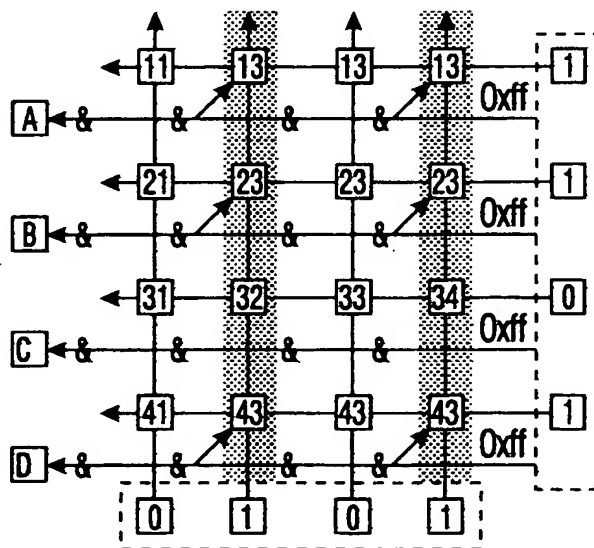
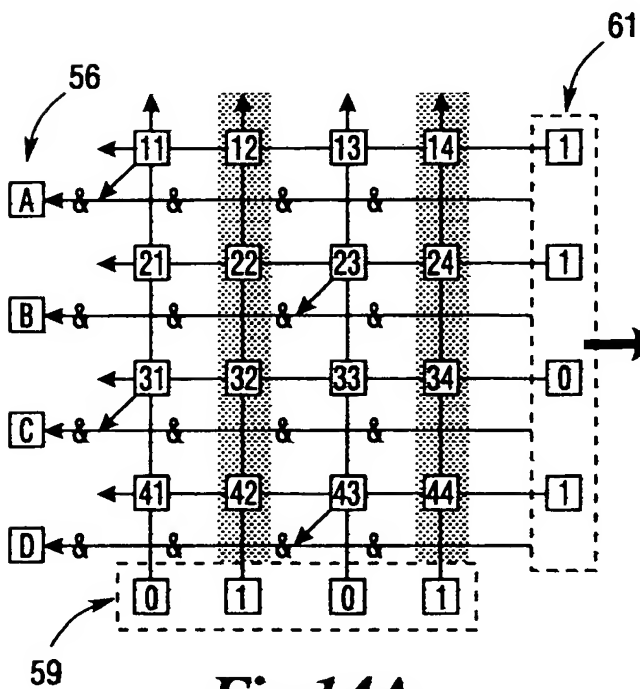
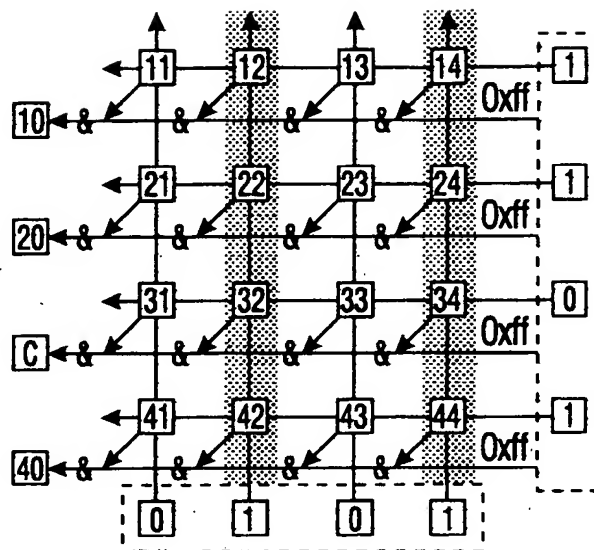
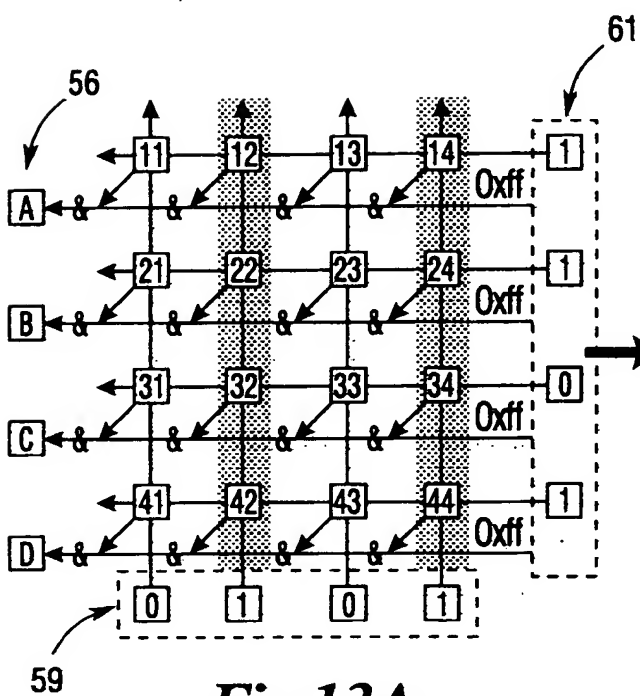


Fig.12B



A	B	C	D	E	F	G	H
A	B	C	D	E	F	G	H
A	B	C	D	E	F	G	H
A	B	C	D	E	F	G	H
A	B	C	D	E	F	G	H
A	B	C	D	E	F	G	H
A	B	C	D	E	F	G	H
A	B	C	D	E	F	G	H



H	G	F	E	D	C	B	A
H	G	F	E	D	C	B	A
H	G	F	E	D	C	B	A
H	G	F	E	D	C	B	A
H	G	F	E	D	C	B	A
H	G	F	E	D	C	B	A
H	G	F	E	D	C	B	A
H	G	F	E	D	C	B	A

Fig.15A

Fig.15B

Fig.16A

1	2	3	4	5	6	7	8
A	B	C	D	E	F	G	H

ORIGINAL DATA

Fig.16B

H	A	B	C	D	E	F	G
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1st SHIFT

Fig.16C

G	H	A	B	C	D	E	F
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2nd SHIFT

Fig.16D

F	G	H	A	B	C	D	E
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3rd SHIFT

Fig.16E

E	F	G	H	A	B	C	D
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4th SHIFT

Fig.16F

D	E	F	G	H	A	B	C
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5th SHIFT

Fig.16G

C	D	E	F	G	H	A	B
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6th SHIFT

Fig.16H

B	C	D	E	F	G	H	A
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7th SHIFT

0	2	4	6	0	2	4	6
0	2	4	6	0	2	4	6
0	2	4	6	0	2	4	6
0	2	4	6	0	2	4	6
0	2	4	6	0	2	4	6
0	2	4	6	0	2	4	6
0	2	4	6	0	2	4	6
0	2	4	6	0	2	4	6

Fig.17

		STEP 1 INITIALIZE									
INPUT		A	B	C	D	E	F	G	H	A	
OUTPUT											
COUNT		0	2	4	6	0	2	4	6		
		STEP 2 - 1st SHIFT RIGHT									
INPUT		H	A	B	C	D	E	F	G	B	
OUTPUT											
COUNT		0	2	4	6	0	2	4	6		
		STEP 3 - TEST (LOAD H & D)									
INPUT		H	A	B	C	D	E	F	G	C	
OUTPUT		H				D					
COUNT		0	2	4	6	0	2	4	6		
		STEP 4 - 1st DECREMENT									
INPUT		H	A	B	C	D	E	F	G	D	
OUTPUT		H				D					
COUNT		-1	1	3	5	-1	1	3	5		
		STEP 5 - 2nd SHIFT RIGHT									
INPUT		G	H	A	B	C	D	E	F	E	
OUTPUT		H				D					
COUNT		-1	1	3	5	-1	1	3	5		
		STEP 6 - TEST (NOTHING TO LOAD)									
INPUT		G	H	A	B	C	D	E	F	F	
OUTPUT		H				D					
COUNT		-1	1	3	5	-1	1	3	5		
		STEP 7 - 2nd DECREMENT									
INPUT		G	H	A	B	C	D	E	F	G	
OUTPUT		H				D					
COUNT		-2	0	2	4	-2	0	2	4		
		STEP 8 - 3rd RIGHT SHIFT									
	H	F	G	H	A	B	C	D	E		
		H				D					
		-2	0	2	4	-2	0	2	4		
		STEP 9 - 3rd TEST (LOAD G8C)									
	I	F	G	H	A	B	C	D	E		
		H	G			D	C				
		-2	0	2	4	-2	0	2	4		
		STEP 10 - 3rd DECREMENT									
	J	F	G	H	A	B	C	D	E		
		H	G			D	C				
		-3	-1	1	3	-3	-1	1	3		
		STEP 20 - 7th SHIFT RIGHT									
	K	B	C	D	E	F	G	H	A		
		H	G	F		D	C	B			
		-6	-4	-2	0	-6	-4	-2	0		
		STEP 21 - 7TH TEST (LOAD E8A)									
	L	B	C	D	E	F	G	H	A		
		H	G	F	E	D	C	B	A		
		-6	-4	-2	0	-6	-4	-2	0		
		STEP 22 - LAST DECREMENT									
	M	B	C	D	E	F	G	H	A		
		H	G	F	E	D	C	B	A		
		-7	-5	-3	-1	-7	-5	-3	-1		

Fig.18